

## Product datasheet for **MG211617**

### Slc38a10 (NM\_024249) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Slc38a10 (NM_024249) Mouse Tagged ORF Clone                                 |
| Tag:                      | TurboGFP  |
| Symbol:                   | Slc38a10  |
| Synonyms:                 | 1810073N04Rik   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >MG211617 representing NM_024249<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACGGCCGCTCCACCTCCAAGTGGGGGCTGATCACGAACGTGGTGAACAGCATCGTGGGCGTCAGCG  
TGCTCACCATGCCTTTCTGCTTCAAGCAGTGTGGCATTGTCTGGGGGCCCTGCTCCTGGTCTTCTGCTC  
CTGGATGACACACCAGTCTTGATGTTCTTGGTGAAGTCGGCCAGCCTGAGCAAGAGGAGGACCTATGCT  
GGCCTGGCGTTCCACGCCTACGGCAAGGCCGGAAGATGCTGGTGGAGACCAGCATGATTGGGCTGATGC  
TGGGATCTGCATTACCTTCTATGTCGTGATCGGTGACTTGGGGTCCAATTCTTTGCTCCGCTGCTTGG  
ATTACAGGTGACCAGGACTGTCCGTGTGTTCTGCTCTTCGCAAGTGTCCCTGTTCAATTGTGCTCCCGCTC  
AGCCTGCAGAGAAACATGATGGCCTCTATCCAGTCTTCAAGTGCATGGCGCTCCTCTTCTACACCGTCT  
TCATGTTCTGATTTGTGCTGTCCCTCCCTAAACATGGCCTCTTTAGTGGGCAAGTGGTGGCAGAGTTCAG  
CTACATTCGCTGGGAAGGTGTTTTCCGCTGTGTCCCATCTTTGGCATGTCTTTGCCTGTGAGTCCAG  
GTCCTGCCACCTATGACAGCCTGGACGAGCCATCAGTGAAGACCATGAGCTCCATCTTTGCCTCCTCCC  
TCAACGTGGTCAACCGCTTCTATGTCATGGTGGGGTTTTTGGTTACGTGAGTCTCACTGATGCCACCAC  
AGGCAATGTGCTGATCCACTTCCCCTCCAACCCGGTACAGAGATGATCCGAGTGGGCTTCGTGATGCT  
GTGGCTGTGGGCTTCCCATGATGATTCTGCCGTGACGAGCCTTGAACACACTGCTGTTTGGCAGC  
AGCAAAAAGATGGAACCTTTGCTGCAGGAGGCTACATGCCCCACTCCGGTTTTAAAGTCCCTACCCTCTC  
GGTGGTGTGGAAACATGGTGGTGGGGTTCATGATCCCCAATGTGGAACCATCCTTGGCTTACAGGA  
GCAACGATGGGAGCCTCATCTGCTTTATCTGCCCGGCTCTGATCTATAAGAAAGCCACAGAATGCC  
CCTCAGCCAGGTGGTCTGCTGGTTCGGCTGGGCATCCTCGTGGTCAAGCACTCACCACCCTCTCTGT  
GACCGAAGAAGCTCCTCTGGACTTGACGCAAGAAGCTCGCAGCGGCCACCGAGGAGATGCTGAGGGCGCA  
ATGAAGGTGGAGGAGCTCGGCTATCAGTCCAGGATCCCGTTGTAGTTGTTGCTGAGGATAGCCAAGAGA  
AGCTAAAGCCAGCAGAGGACAAAGAGGTACTGGAGCAGGCCAGATCAAGGGTCTGTAGATGTGCCTGG  
CGGGGAAGCTCCAAGGAGAAGCAGGAAGCCGCACAGCTGGATCGCCCCGCCAAGTATTGCTGTCCCT



ATGGGTGAGGCCATCGCCATGAGCCTCCCATCCCTCATGATAAAGTGGTGGTGAAGGCCAGGACC  
 AAGAAGGGCCAGAGGAGAAAAAGCCACCTCCCAGGCTCCCAGATGAAGGAGACCTGCAGGCAGGGGTCA  
 AGGGGCACCACCTCTGCCTGAGTCAGAGAAGGAGAAGCAGGAACCTGAGAGAGGAGGGAAAGAAAGAGA  
 CCCGGCAAGTCTTGGCAGTAGGAGAACTGAACATCCTCAGAAGGTTCCAGAAGCAAATGGCCAGCCAC  
 CTGTGCAGCCCAGGAAGGAAGATTCCAGGCCAGGAAATAGGGATCCGCAGCCAGCTGCCAGGCCAGGGA  
 CTCTGTGGAGCTGAAGGCTCTGGCAGCAGATGACGGCAGGGAGCCTGCACAGAAGGCTGGAGGCGCCCTG  
 TGAAGCCCGTGGAGAGTGTCTGCTGAGAGCGATGCTGGTGGGAAGGCGGGCCCTCCCTGTGCAAAAGCCGG  
 AGGCTGCAGAGCAGAGGAGGAAGAAGGAGGCTGAGCAACAGGGTGGAGACCAGGCCGGGAGCAAGCTGGA  
 AGCTGAAATTA AAAAGCTAGTAGCAGAAGCTGGGAGGGCAGAGATGCTGGACCATGCCGTGCTGCTACAG  
 GTGATCCAAGAGCAGCAGGTGCAGCAGAAGCGCCTCCTGGACCAGCAGGAAAAGCTGCTCGCAGTGATTG  
 AGGAGCAGCACAAGGAGATCCGGCAGCAGCAGCAGGAGGGCGAGGAAGACAAGCCTAAGCCTGACGTGCA  
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 CTCTGAAACAGAGCCCCAGGGGGCCCCGATTGATCTGAGAGAAGACCCGAAAGCTGCCATCAAGGCGGCT  
 GGAGCTGGGAAGGAGCTGGTCCCAGGGGACTTGAAGCAGTGCACAAGGCAGCCCTCCTGAGGTACCCA  
 AGAGTCCAGAGAAGCAGGTTGCCAAGGCAGTTGCCGGGCAGCGCCAAGATGTCTTTGGTGAAGGCTCCGA  
 AGAAAGGAAAGAACTGGAAAGGAAGCAATGGCCCTGGTGTGATACTCAGAAAGAGGCTGTCCAGCCC  
 TTGGTAGGAGCAGAAGCTAAGGACACAAAATCCAGGCAGTCGGGACCCACCAAGGCCAGTTTCCAGCCC  
 AAGCCAAGTTTACCCAGAACCCAGGCCATCTTTGACACAGGTGAGGGTTCTCACCCAGAGGTGAGAAG  
 TGAGGCCCCCCGAGCGGTTACATACTCTGAGGAGCAGCACAAGGAAAAGGGGTGCCGCCATCCAG  
 GAGGCAAAGCAGAGACCAGATCCTAACTCTGGGCCAACTAGCTGTGCCTGCGGGTGAAGCCAGAGA  
 ATGCCAAACCAACCCAGACCTAAAAGTGCAGGCTGGCTGACCTGCGGAGGAGACGGCGGGGACTGGC  
 CTCTCATCCAGAGCAGGAGCTGGCTCCAAAGGATGGCGTATCATTAGCTTTAACTCCCTCCCTAATGTT  
 CAGGTGAACGACCTCCGAGTGTCTGGACACCCAGCTCCGCCAGGCTGCAGGGGCTGCGTTGCAAGTGG  
 TACACAGCCGACAGATTAACAGTTGTCTGGAGATCTGGAGGAAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG211617 representing NM\_024249  
 Red=Cloning site Green=Tags(s)

MTAASTSKWGLITNVVNSIVGVSVLTMFPCFKQCIGIVLGALLLVFCSWMTHQSCMFLVKSASLSKRRTYA  
 GLAFHAYGKAGKMLVETSMIGLMLGSCITFYVVIIGDLGSNFFAPLLGLQVTRTVRVFLFAVSLFIVLPL  
 SLQRNMMASIQSFSAMALLFYTVFMFVIVLSSLKHGLFSGQWLQVSYIRWEGVFRVPIFGMSFACQSQ  
 VLPTYDSLDEPSVKTMSIFASSLNVVTA FYVMVGFYVVSFTDATTGNVLIHFPSNPVTEMIRVGFVMS  
 VAVGFPMILPCRQALNTLLFEQQQKDGTF AAGGYMPLRFKVLTL SVVFGTMVGGVMIPNVETILGFTG  
 ATMGSLICFICPALIYKKAHKNAPSAQVVLWVGLGILVVSTLTTL SVTEEAPLDLTQEARSGHRGDAEGA  
 MKVEAARLSVQDPVVVVAEDSQEKLKPAEDKEVLEQAQIKGPVDVPGGEAPKEKQEAQQLDRPGQGI AVP  
 MGEAHRHEPPIPHDKVVVDEGQDQEGPEEKPPPRLPDEGDPAGRQGAPPLPESEKEKQEPERGGEGKR  
 PGQVLA VGETEHPQKVPEANGQPPVQPRKEDSRPGRNDPQPAQAARDSVELKALAADDGREPAQKAGGAL  
 WKPVESA AESDAGGKAGLPVQRPEAAEQREKKEAEQQGGDQAGSKLEAEIKKLVAEAGRAEMLDHAVLLQ  
 VIQEQQVQKRLLDQDEKLLAVIEEQHKEIRQQRQEGEEDKPKPDVQPEPGVAVLRGQEEEAHAGETLG  
 DDPSQPLQPVLGAPRGRPAPSQDMGQHLPGEVKVL PGRDLADLPAGGSETEPQGAPIDLREDPKAAIKAA  
 GAGKELVPGDLEAVHKAAPPEVPK SPEKQVAKAVAGQRQDVFGESEERKETGKEAMAPGADTQKEAVQP  
 LVGAEKDTKSRQSGPTKAPVQTQAKFHPEPQAIFDTGQGSHPVEVRSEAPRAVHIPPEEQHKGGGAAIQ  
 EAKQRDPDPSGPKLAVPAGQKPENAKPNRDLKVQAGSDLRRRRRDLASHPEQELAPKDGVIISFNLSLPNV  
 QVNDLRSALDTQLRQAAGAALQVVHSRQIKQLSGDLEEA

TRTRPLE - GFP Tag - V

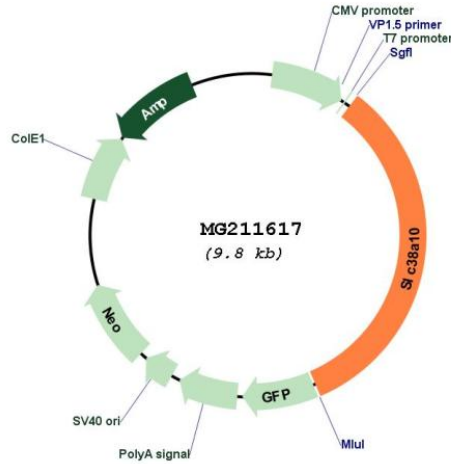
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_024249

ORF Size: 4589 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

|                               |   |
|-------------------------------|---|
| <b>Components:</b>            | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol> |
| <b>RefSeq:</b>                | <u><a href="#">NM_024249.3</a></u>  |
| <b>RefSeq Size:</b>           | 4496 bp   |
| <b>RefSeq ORF:</b>            | 3273 bp   |
| <b>Locus ID:</b>              | 72055   |
| <b>UniProt ID:</b>            | <u><a href="#">Q5I012</a></u>   |
| <b>Cytogenetics:</b>          | 11 E2   |
| <b>Gene Summary:</b>          | Putative sodium-dependent amino acid/proton antiporter.[UniProtKB/Swiss-Prot Function]  |